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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,565	12/17/2001	Katsuhide Yajima	Q67755	6231

7590 12/09/2002

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EXAMINER

ADDISON, KAREN B

ART UNIT	PAPER NUMBER
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2834

DATE MAILED: 12/09/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/015,565

Applicant(s)

YAJIMA ET AL.

Examiner

Karen B Addison

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 September 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over APA in view of Yamamoto (5121,017)

APA discloses in fig.2 a motor comprising: a rotor (1), a rotary shaft (11) inserted and fixed into the rotor; stack stator cores (7a, 7b), each constituting a stator core comprising inner yoke(9) and outer yoke(8) being integrated by a coil bobbin and opposed to the rotor; an output side bearing (4b) provided on the output side of rotary shaft, and supporting a portion near an output portion of the rotary shaft; a opposite side bearing holding portion (3) for holding an opposite side bearing (4a) supporting an opposite side to the output side of the rotary shaft. Wherein, a lead screw (A) is formed at the output portion and a rotation of the lead screw directly affects an operated member. APA also discloses a hole (B) having an inner diameter larger than an outer diameter of the rotor formed in opposite side bearing holder portion(C) wherein, the opposite side bearing supported by the holding portion is configured to move axially towards the output side brought in contact with the output side bearing to thereby be

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positioned in the axial direction thereof. APA does not disclose the output side bearing and holding portion made of resin and being integrally formed to the stator.

Yamamoto teaches a motor in fig.2 comprising an output side bearing (25) and the opposite side bearing holding portion (18) made of resin for the purpose of integrally uniting the stator core. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the motor of APA with the teaching of the bearings and holding portion made of resin for the purpose of integrally uniting the stator core.

3. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over APA in view of Yamamoto (5121017) applied to claims 1-4 above, and further in view of Ohi (5798589).

As seen above APA and Yamamoto disclose substantially the claim invention. However, neither APA nor Yamamoto teaches a lubricant filled in a gap formed between the lead screw and the output side bearing.

Ohi teaches in fig.1-7 a motor comprising a lubricant filled in a gap (33) formed between the shaft 2 (a functionally equivalent of a lead screw) and the output side bearing (16) for the purpose of improving slidability of the bearing. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the motor of APA and Yamamoto with the lubrication system of Ohi for the purpose reducing sliding friction of the bearing and improving the slidability of the bearing.

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Referring to claim 1 and 5 the method of forming (eg. Insert molding) the device is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight.

### ***Response to Arguments***

4. Applicant's arguments filed 9/30/02 have been fully considered but they are not persuasive.

In response to the applicant's that Yamamoto fails to teach, "integrally uniting the stator cores" is noted

However, Yamamoto clearly states that's the stator cores are integrally united (col.6 line18-29, fig.2).

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

### ***Conclusion***

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen B Addison whose telephone number is 703-306-5855. The examiner can normally be reached on 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 703-308-1317. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KBA  
December 3, 2002



NESTOR RAMIREZ  
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